

Cisco SG300 IGMP setup

V1.4 – 7th January 2020

Cisco Firmware V1.4.11.2

The screenshot shows the 'System Settings' page in the Cisco SG300 web interface. On the left is a navigation menu with categories like 'Getting Started', 'Status and Statistics', 'Administration', 'Port Management', 'Smartport', 'VLAN Management', 'Spanning Tree', 'MAC Address Tables', 'Multicast', 'IP Configuration', and 'Security'. The 'Administration' category is expanded, showing 'System Settings' as the selected option. The main content area is titled 'System Settings' and contains the following fields:

- System Description:** 24-Port 10/100 PoE Managed Switch
- System Location:** (0/160 Characters Used)
- System Contact:** (0/160 Characters Used)
- Host Name:** ☒ Use Default, ☐ User Defined (0/58 Characters Used, Default: switchc323f0)
- System Mode:** ☒ L2, ☐ L3
- Custom Login Screen Settings:**
 - Login Banner:** (0/1000 Characters Used)

At the bottom of the main content area are buttons for 'Preview...', 'Apply', and 'Cancel'.

The screenshot shows the 'Properties' page for Multicast in the Cisco SG300 web interface. The left navigation menu is the same as in the previous screenshot, but 'Multicast' is expanded, and 'Properties' is selected. The main content area is titled 'Properties' and contains the following settings:

- Bridge Multicast Filtering Status:** ☒ Enable
- VLAN ID:** 1 (dropdown menu)
- Forwarding Method for IPv6:** ☐ MAC Group Address, ☒ IP Group Address, ☐ Source Specific IP Group Address
- Forwarding Method for IPv4:** ☐ MAC Group Address, ☒ IP Group Address, ☐ Source Specific IP Group Address

At the bottom of the main content area are buttons for 'Apply' and 'Cancel'.

Getting Started

Status and Statistics

Administration

Port Management

Smartport

VLAN Management

Spanning Tree

MAC Address Tables

Multicast

Properties

MAC Group Address

IP Multicast Group Address

IGMP Snooping

MLD Snooping

IGMP/MLD IP Multicast Group

Multicast Router Port

Forward All

Unregistered Multicast

IP Configuration

DHCP Relay

Properties

DHCP Relay Interfaces

IP Multicast Group Address

The Bridge Multicast Filtering is currently enabled.
For IP Multicast Configuration to be effective, the [Bridge Multicast Filtering](#) must be enabled.

IP Multicast Group Address Table

Filter: ☐ VLAN ID equals to (Range: 1 - 4094)

☐ IP Version equals to

☐ IP Multicast Group Address equals to

☐ Source IP Address equals to

<input type="checkbox"/>	VLAN ID	IP Multicast Group Address	Source IP Address
<input type="checkbox"/>	1	224.0.0.251	*
<input type="checkbox"/>	1	224.0.1.60	*
<input type="checkbox"/>	1	239.253.112.47	*
<input type="checkbox"/>	1	239.255.250.250	*
<input type="checkbox"/>	1	239.255.250.251	*
<input type="checkbox"/>	1	239.255.255.250	*

Getting Started

Status and Statistics

System Summary

Interface

Etherlike

GVRP

802.1x EAP

ACL

TCAM Utilization

RMON

View Log

Administration

Port Management

Smartport

VLAN Management

Spanning Tree

MAC Address Tables

Multicast

Properties

MAC Group Address

IP Multicast Group Address

IPv4 Multicast Configuration

IGMP Snooping

IGMP VLAN Settings

IPv6 Multicast Configuration

IGMP/MLD Snooping IP Multic

Multicast Router Port

Forward All

Unregistered Multicast

IP Configuration

Security

Access Control

Quality of Service

SNMP

IGMP Snooping

IGMP Snooping Status: ☒ Enable

IGMP Querier Status: ☒ Enable

IGMP Snooping Table

Entry No.	VLAN ID	IGMP Snooping Operational Status	MRouter Ports Auto Learn	Immediate Leave	Last Member Query Counter	IGMP Querier Status	IGMP Querier Election	IGMP Querier Version	Querier IP Address
1	1	Enabled	Enabled	Disabled	2	Enabled	Enabled	v2	10.144.15.4

Edit IGMP Snooping Settings - Mozilla Firefox

https://10.144.15.4/csa9716f30/multicast/IGMP_Snooping_e_jq.htm

VLAN ID:

IGMP Snooping Status: ☒ Enable

MRouter Ports Auto Learn: ☒ Enable

Immediate Leave: ☐ Enable

Last Member Query Counter: ☒ Use Query Robustness (2)
☐ User Defined (Range: 1 - 7)

IGMP Querier Status: ☒ Enable

IGMP Querier Election: ☒ Enable

IGMP Querier Version: ☒ v2
☐ v3

Querier Source IP Address: ☒ Auto
☐ User Defined

Getting Started

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▶ Administration

▶ Port Management

▶ Smartport

▶ VLAN Management

▶ Spanning Tree

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▼ Multicast

Properties

MAC Group Address

IP Multicast Group Address

▼ IPv4 Multicast Configuration

IGMP Snooping

IGMP VLAN Settings

▶ IPv6 Multicast Configuration

IGMP/MLD Snooping IP Multic

Multicast Router Port

Forward All

Unregistered Multicast

▶ IP Configuration

▶ Security

▶ Access Control

▶ Quality of Service

IGMP VLAN Settings

IGMP Settings Table							
Entry No.	Interface Name	Router IGMP Version	Query Robustness	Query Interval (sec)	Query Max Response Interval (sec)	Last Member Query Interval (msec)	
1	VLAN1	v2	2	125	10	1000	

Edit IGMP Settings - Mozilla Firefox

https://10.144.15.4/csa9716f30/multicast/IgmpVlanSettings_e_jq.htm

Interface Name: VLAN 1

Query Robustness: 2 (Range: 1 - 7, Default: 2)

Query Interval: 125 sec (Range: 30 - 18000, Default: 125)

Query Max Response Interval: 10 sec (Range: 5 - 20, Default: 10)

Last Member Query Interval: 1000 ms (Range: 100 - 25500 in multiples of 100, Default: 1000)

Apply

Close

Getting Started

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▶ Administration

▶ Port Management

▶ Smartport

▶ VLAN Management

▶ Spanning Tree

▶ MAC Address Tables

▼ Multicast

Properties

MAC Group Address

IP Multicast Group Address

▶ IPv4 Multicast Configuration

▶ IPv6 Multicast Configuration

IGMP/MLD Snooping IP Multic

Multicast Router Port

Forward All

Unregistered Multicast

▶ IP Configuration

Unregistered Multicast

Filter: Interface Type equals to Port Go

Port	GE1	GE2	GE3	GE4	GE5	GE6	GE7	GE8	GE9	GE10
Forwarding	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Filtering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Apply

Cancel

Getting Started	<div>Properties</div> <div>For the functions and/or parameters configured on this page to become effective, you may have to configure the corresponding port based parameters on Port Settings page.</div> <div>Energy Detect Mode: <input type="checkbox"/> Enable</div> <div>Short Reach: <input type="checkbox"/> Enable</div> <div>Port LEDs: <input checked="" type="checkbox"/> Enable</div> <div>Power Savings: 41 %</div> <div>Cumulative Energy Saved: 0 Watt Hour</div> <div><div>Apply</div><div>Cancel</div><div>Reset Energy Saving Counter</div></div>
▶ Status and Statistics	
▶ Administration	
▼ Port Management	
Port Settings	
Error Recovery Settings	
Loopback Detection Settings	
▶ Link Aggregation	
▶ UDLD	
▶ Green Ethernet	
Properties	
Port Settings	
▶ Smartport	
▶ VLAN Management	
▶ Spanning Tree	
▶ MAC Address Tables	
▼ Multicast	
Properties	